

TABLE III-continued

Effect of Terminal Sterilization and 12 Month Storage at Room Temperature on Amino Acids of Hypoallergenic Formula (pH about 6.5-7.0) Casein Hydrolysate Formula			
Amino Acid mg/g P.E.*	Before Terminal Sterilization	After Terminal Sterilization	After 12 Month Storage at Room Temperature
Valine	68.6	67.5	66.9
Methionine	28.6	28.3	28.5
Isoleucine	55.5	55.2	56.4
Leucine	95.3	93.7	92.0
Tyrosine	9.5	10.5	13.9
Phenylalanine	42.7	41.0	42.0
Histidine	23.5	23.4	23.4
Lysine	78.9	77.1	76.7
Tryptophan	9.0	7.6	—
Available Lysine	63.1	73.1	75.1

\*Protein Equivalent

While the hypoallergenic formula is preferably provided in a ready-to-feed liquid form, it may also be concentrated by increasing the percent total solids of the formula or made in powder form, both procedures being well known to those skilled in the art. The concentrate or powder are then reconstituted for feeding by adding water.

While specific examples have been given to illustrate the invention, it is to be understood that those skilled in the art will recognize variations without departing from the spirit and scope of the invention.

What is claimed is:

1. In an improved enteral nutritional hypoallergenic formula comprising, based on total calories of the formula, about 35% to about 60% carbohydrates, about 35% to about 55% lipids and about 8% to about 20% protein hydrolysate, the improvement wherein the formula further comprises as a sole emulsifier a dextrinized starch modified by octenyl succinic anhydride in an

amount sufficient to form a stable, non-browning emulsion at a pH from about 6 to about 7.

2. The hypoallergenic formula of claim 1 wherein the protein hydrolysate is supplemented with free amino acids.

3. The hypoallergenic formula of claim 1 wherein the formula caloric distribution comprises about 40% to about 45% carbohydrates, about 45% to about 50% lipids, and about 10% to about 14% protein hydrolysate and free amino acids.

4. The hypoallergenic formula of claim 1 further comprising vitamins and minerals.

5. The hypoallergenic formula of claim 1 wherein the starch comprises octenyl succinic anhydride modified corn starch.

6. The hypoallergenic formula of claim 1 wherein the modified starch comprises octenyl succinic anhydride modified corn starch and wherein the carbohydrates are selected from the group consisting of sucrose, low D.E. maltodextrins and hydrolyzed starches, the lipids comprise safflower oil, medium chain triglycerides, and soy oil, and the protein hydrolysate is selected from the group consisting of animal and vegetable protein hydrolysates and mixtures thereof.

7. The hypoallergenic formula of claim 6 wherein the lipids comprise at least 10% linoleic acid.

8. The hypoallergenic formula of claim 1 wherein the formula is provided as a ready-to-feed liquid, a concentrated liquid or a powder.

9. The hypoallergenic formula of claim 6 wherein the animal hydrolysate is selected from the group consisting of whey or casein hydrolysate.

10. The hypoallergenic formula of claim 6 wherein the vegetable hydrolysate comprises soy hydrolysate.

11. The hypoallergenic formula of claim 1 further comprising a carrageenan or xanthan gum stabilizer.

\* \* \* \* \*